



## SCOPE OF ACCREDITATION

**SGS CANADA INC. MINERALS - BURNABY**  
**3260 Production Way Suite E**  
**Burnaby, BC**  
**V5A4W4**

Accredited Laboratory No. 744  
(Conforms with requirements of ISO/IEC 17025:2017, RG-MINERAL )

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CLIENTS SERVED: Mining, Exploration, Research and Industrial Clients -  
Worldwide

FIELDS OF TESTING: Chemical/Physical

PROGRAM SPECIALTY AREA: Agriculture Inputs, Food, Animal Health and Plant  
Protection (PSA-AFAP) , Mineral Analysis

INITIAL ACCREDITATION DATE: 2012-04-05

SCOPE ISSUED ON: 2019-05-27

ACCREDITATION VALID TO: 2024-04-05

### SCC GROUP ACCREDITATION

This laboratory is a party to a SCC Group Accreditation with the following facilities, with each facility having its own accreditation scope:

Laboratory Name and Address	Accredited Laboratory No.
SGS CANADA INC.- MINERALS - LAKEFIELD P.O. Box 4300, 185 Concession Street, Lakefield, ON K0L 2H0	184
SGS CANADA INC. MINERALS - BURNABY 3260 Production Way Suite E, Burnaby, BC V5A4W4	744
SGS CANADA INC., MINERALS - ENERGY 7500 76th Street, Delta , BC V4G 1E6	807
SGS CANADA INC. MINERALS COCHRANE 1 First Avenue, Cochrane, ON P0L 1C0	841
SGS Canada Inc., MINERALS - RED LAKE 16A Young St., P.O. Box 1349, Red Lake, ON P0V 2M0	598



## **CHEMICALS AND CHEMICAL PRODUCTS**

### **Chemicals for Agricultural Industry:**

SPPA Potassium in Fertilizers                      SPPA: Saskatchewan Potash Producers Association, Inc. (SPPA) Sample Preparation Procedures Standard Analytical Procedures & Standard Physical Testing Procedures For The Analysis of Potassium (K<sub>2</sub>O) and Sodium Chloride (NaCl) in Potassium Chloride & other Fertilizers [K<sub>2</sub>O; NaCl; KCL]

## **METALLIC ORES AND PRODUCTS**

### **Metallic Ores:**

#### **Rocks and Ores**

**(Sediments, sands, soils, stones  
Precious Metals)**

### **Mineral Analysis Testing**

(see Note 1 concerning off site physical sample preparation)

#### **Assay, Umpire Assay Work**

#### **Mineral Assaying**

GE_AAS12E	Preparation and Determination of Silver in Exploration Samples by Nitric and Hydrochloric Acid Digestion and Atomic-Absorption Spectroscopy (AAS) [Ag;HNO <sub>3</sub> ;HCl;]
GE_AAS42E	Preparation and Determination of Silver in Exploration Samples by Multi-acid Digest and Atomic-Absorption Spectroscopy (AAS) [Ag; HNO <sub>3</sub> ; HCl; HClO <sub>4</sub> ; HF]
GE_FAA313-FAA515	Preparation and Determination of Gold in Exploration Samples by Lead Fusion Fire Assay and Atomic Absorption Spectrometry [30g.; 50g.; Au; HNO <sub>3</sub> , HCl, AAS]
GE_FAI313-FAI515	Preparation and Determination of Gold, Platinum and Palladium in Exploration Samples by Lead Fusion Fire Assay and Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) [30g.; 50g.; Au; Pt; Pd; HNO <sub>3</sub> ; HCl]
GE_ICM14B	Determination of Fifty-one (51) Elements in Geological Samples using an Aqua Regia Digestion and a Combination of Inductively



	<p>Coupled Plasma Emission Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS) [HNO<sub>3</sub>; HCl; Al; Sb; As; Ba; Be; Bi; Ca; Cd; Ce; Cs; Cr; Co; Cu; Ga; Ge; Hf; In; Fe; La; Pb; Li; Lu; Mg; Mn; Hg; Mo; Ni; Nb; P; K; Rb; Sc; Se; Ag; Na; Sr; S; Ta; Te; Tb; Tl; Th; Sn; Ti; U; V; W; Y; Yb, Zn; Zr]</p>
GE_ICM40B	<p>Preparation and Determination of Forty-nine (49) Elements in Exploration Samples using Multi-acid digestion and Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS) [HCl; HNO<sub>3</sub>; HF; HClO<sub>4</sub>; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Ce; Cs; Cr; Co; Cu; Ga; Hf; In; Fe; K; La; Li; Lu; Mg; Mn; Mo; Ni; Nb; P; Pb; Rb; Sb; Sc; Se; Na; Sr; S; Ta; Te; Tb; Tl; Th; Sn; Ti; W; U; V; Yb; Y; Zn; Zr]</p>
GE_ICM90A	<p>Determination of Fifty-six (56) Elements in Geological Samples using Sodium Peroxide Fusion and a Combination of Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS) [Na<sub>2</sub>O<sub>2</sub>; HNO<sub>3</sub>; C<sub>4</sub>H<sub>6</sub>O<sub>3</sub>; Ag; Al; As; Ba; Be; Bi; Ca; Cd; Ce; Co; Cr; Cs; Cu; Dy; Er; Eu; Fe; Ga; Gd; Ge; Hf; Ho; In; K; La; Li; Lu; Mg; Mn; Mo; Nb; Nd; Ni; P; Pb; Pr; Rb; Sb; Sc; Si; Sm; Sn; Sr; Ta; Tb; Th; Tl; Ti; Tm; U; V; W; Y; Yb, Zn; Zr]</p>
GE_ICP14B	<p>Preparation and Determination of Thirty-four (34) Elements in Exploration Samples using Aqua Regia Digest and Inductively Coupled Plasma Emission Spectrometry (ICP-AES) [Ag; Al; As; Ba; Be; Bi; Ca; Cd; Cr; Co; Cu; Fe; Hg; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; S; Sb; Sc; Sn; Sr; Ti; V; W; Y; Zn; Zr; HCl; HNO<sub>3</sub>]</p>
GE_ICP40B	<p>Preparation and Determination of Thirty-three (33) Elements in Exploration Samples using Multi-Acid Digestion and Inductively Coupled Plasma Emission Spectrometry (ICP-AES) [HCl; HNO<sub>3</sub>; HF; HClO<sub>4</sub>; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Cr; Co; Cu; Fe; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; S; Sb; Sc; Sn; Sr; Ti; W; V; Y; Zn; Zr]</p>
GO_FAG303-FAG505	<p>Preparation and Determination of Ore Grade Gold by Lead Fusion Fire Assay and Gravimetric Finish [Au; 30g.; 50g.; HNO<sub>3</sub>]</p>
GO_ICP90Q	<p>Preparation and Determination of Various Elements in Ore Grade Samples using Sodium Peroxide Fusion and Inductively Coupled Plasma Emission Spectrometry (ICP-OES) [Na<sub>2</sub>O<sub>2</sub>; HNO<sub>3</sub>; C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>; Co; Cu; Pb; Mo; Ni; Zn]</p>
GOGCGE CSA06V	<p>Preparation and Determination of Sulphur and Carbon in Exploration, Ores, Concentrates and Metallurgical Samples by Combustion- Infrared Detection (IR) [S;C;]</p>
GT GC_GO_XRF76V	<p>Preparation and Determination of Major Element Oxides, LOI by Borate Fusion and Xray Fluorescence Spectrometry [SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, MgO, CaO, Na<sub>2</sub>O, K<sub>2</sub>O, P<sub>2</sub>O<sub>5</sub>, MnO, TiO<sub>2</sub>, Cr<sub>2</sub>O<sub>3</sub>, V<sub>2</sub>O<sub>5</sub>; LOI; XRF]</p>



**Standards Council of Canada**  
**Conseil canadien des normes**

**Notes:**

The physical sample preparation involving accredited test methods as listed on the scope of accreditation may be performed on location or at offsite SGS locations – which are monitored regularly for quality control and quality assurance practices.

**ISO/IEC 17025:2017:** General Requirements for the Competence of Testing and Calibration Laboratories

**RG-MINERAL:** SCC Requirements and Guidance for the Accreditation of Mineral Analysis Testing Laboratories

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Elias Rafoul, Vice President  
Accreditation Services

Date: 2019-05-27

Number of Scope Listings: 13  
SCC 1003-15/919  
Partner File #0  
Partner: